

Sync 1 24	SB1 4	Sync 2 16	SB2 4
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FIGURE 1

Sync 1 24	SB1 2	Data 16	SB2 4
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FIGURE 4

d	x x x x	0 0 0 1 1 0 1 0	x x x x
3	0 0 0 1	1 0 1 0	
3	0 0 0	1 1 0 1 0	
3	0 0	0 1 1 0 1 0	
4	0	0 0 1 1 0 1 0	
0		0 0 0 1 1 0 1 0	
4		0 0 0 1 1 0 1	0
3		0 0 0 1 1 0	1 0
3		0 0 0 1 1	0 1 0
3		0 0 0 1	1 0 1 0
d	x x x x	0 0 0 1 1 0 1 0	x x x x

FIGURE 5

FIG. 2 is a block diagram of a VCM control system for a hard disk drive. The system includes a hard disk drive 200, a VCM 201, a head 202, a PES 203A, a DAC 203B, a DRIVER 204, a FILTER 205, a CONTROLLER 206, and a DEMODULATOR 207. The head 202 is positioned over the hard disk 200. The VCM 201 is connected to the head 202. The PES 203A is connected to the VCM 201. The DAC 203B is connected to the DRIVER 204. The DRIVER 204 is connected to the FILTER 205. The CONTROLLER 206 is connected to the FILTER 205. The DEMODULATOR 207 is connected to the CONTROLLER 206. The DEMODULATOR 207 is also connected to the PES 203A. The PES 203A is connected to the VCM 201. The VCM 201 is connected to the head 202. The head 202 is positioned over the hard disk 200.

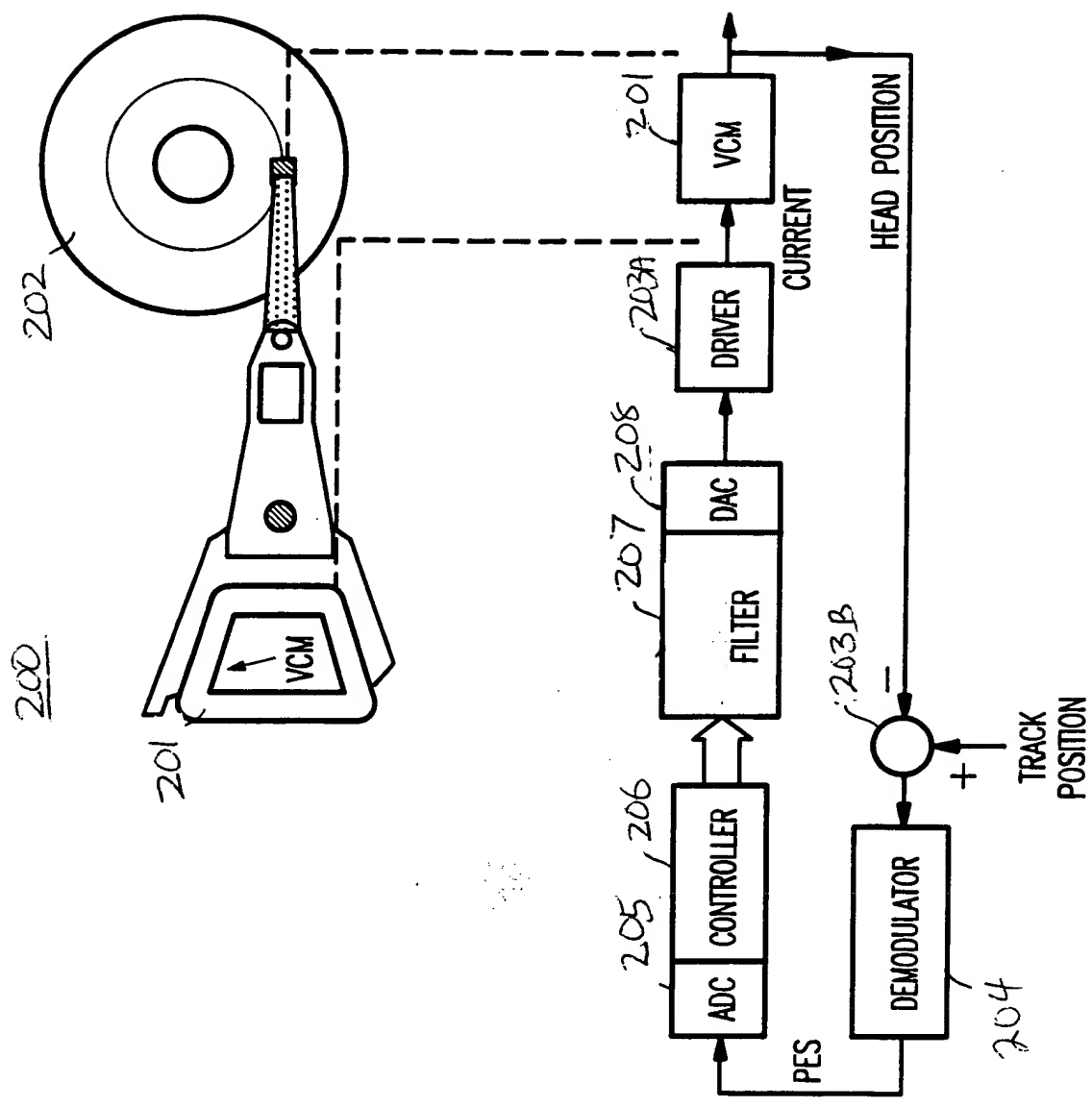
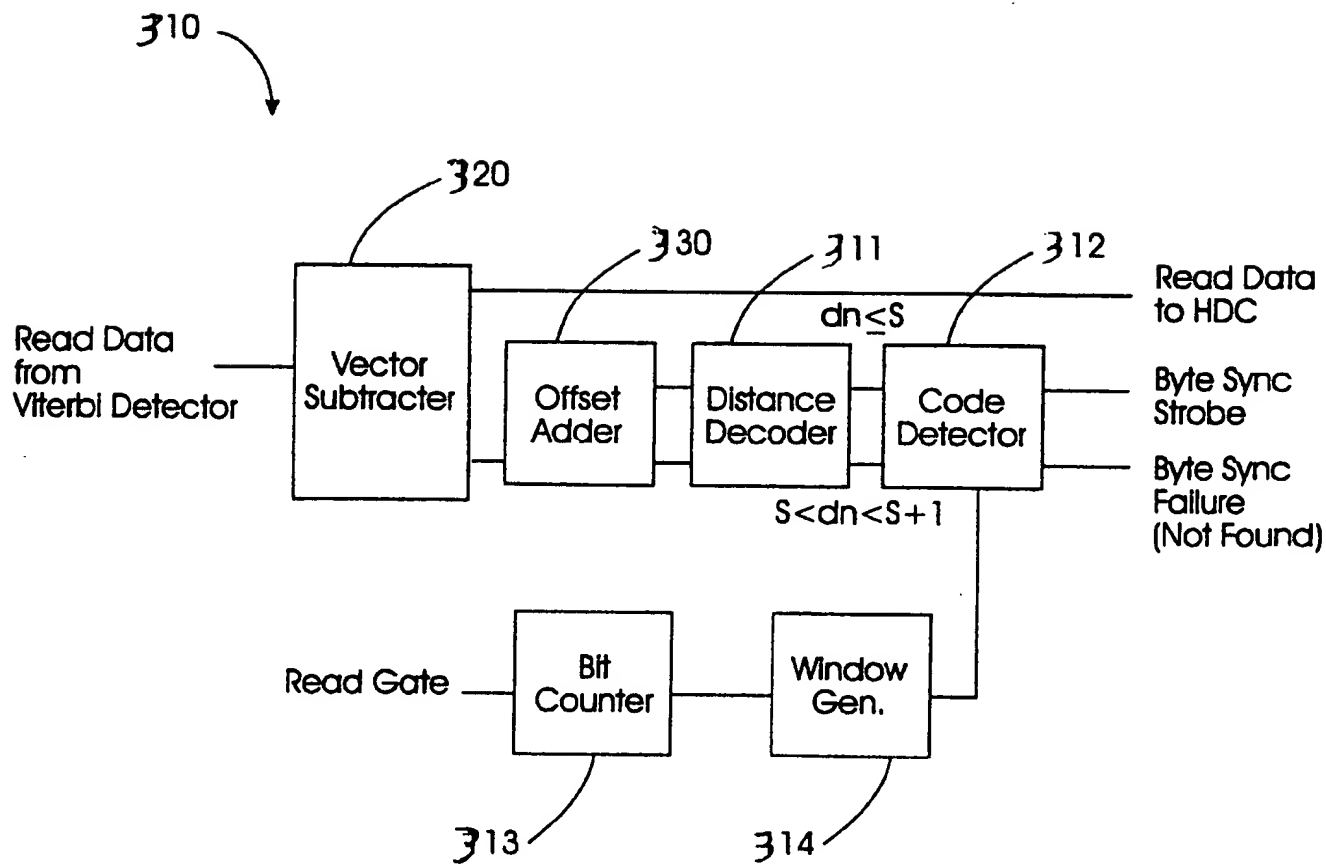


FIG. 2



Prior Art

FIG. 3

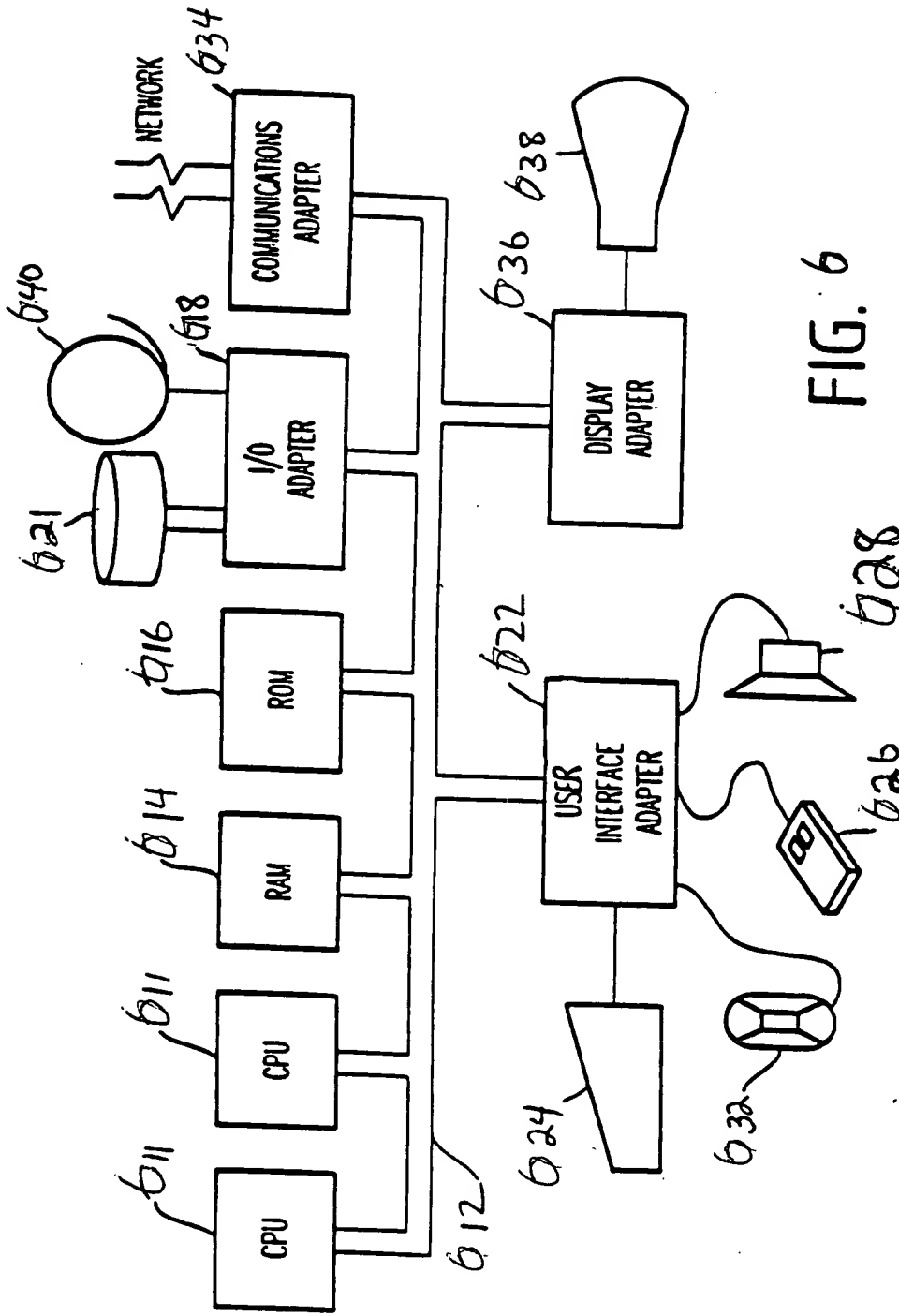


FIG. 6

FIG. 7

